

WHAT IS CLAIMED IS:

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1. A plasma display device having first and second substrates and a discharge gas filled therebetween, the plasma display device comprising:

first and second electrodes extending
10 parallel to each other on a first substrate; and
first and second discharge electrode parts
extending from the first and second electrodes,
respectively, so as to oppose each other,

wherein:

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a discharge gap of a substantially
constant width is formed between one of the first
discharge electrode parts and one of the second
discharge electrode parts, the ones opposing each
other, the discharge gap being defined by first and
20 second edge parts of the ones of the first and
second discharge electrode parts, respectively; and

the first and second edge parts have
lengths longer than widths of the ones of the first
and second discharge electrode parts, the widths
25 being measured in directions in which the first and
second electrodes extend, respectively.

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2. The plasma display device as claimed
in claim 1, wherein the discharge gap has a length
longer than or equal to 150 μm and shorter than 200
35 μm .

3. The plasma display device as claimed
in claim 1, wherein:

the first edge part extends obliquely with
respect to the direction in which the first
5 electrode extends; and

the second edge part extends substantially
parallel to the first edge part and obliquely with
respect to the direction in which the second
electrode extends.

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4. The plasma display device as claimed
15 in claim 3, wherein the first edge part forms an
angle θ with respect to the direction in which the
first electrode extends, the angle θ satisfying a
condition $30^\circ \leq \theta \leq 60^\circ$.

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5. The plasma display device as claimed
in claim 1, wherein the first and second edge parts
25 are defined by a plurality of sides forming angles
with respect to the direction in which the first and
second electrode extend, respectively.

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6. The plasma display device as claimed
in claim 1, wherein:

the first edge part has a convex shape;

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the second edge part has a concave shape
matching the first edge part.

the first and second electrodes are repeatedly formed alternately; and

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8. The plasma display device as claimed
15 in claim 7, wherein each of the first discharge
electrode parts includes first and second electrode
patterns extending from the first and second sides
of the first electrode, respectively, the first
electrode pattern forming a first discharge gap with
20 one of the second discharge electrode parts which
one opposes the first electrode pattern, the second
electrode pattern forming a second discharge gap
with one of the second discharge electrode parts
which one opposes the second electrode pattern, the
25 second discharge gap being substantially equal to
the first discharge gap in size.